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cont

the outer circumferential surface formed by the outermost members being formed so that a number N of vertexes of the polygon and the diameter d satisfy a condition defined by the following formula 1:

$$N=(13.0+0.092d+0.0031d^2) \text{ rounded off} \quad (1)$$

the depth H of each arc-shaped groove and the diameter d satisfy a condition defined by the following formula 2:

$$0.00543d \leq H \leq 0.00865d \quad (2)$$

and

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the radius R of each arc-shaped groove and the depth H satisfy a condition defined by the following formula 3:

$$4.960H \leq R \leq 8.802H \quad (3)$$

2. (Amended) An overhead cable as set forth in claim 1, wherein the outer circumferential surface formed by the outermost members being formed so that

the depth H of each arc-shaped groove of the polygon and the diameter d satisfy a condition defined by the following formula 2-1:

$$0.00656d \leq H \leq 0.00773d \quad (2-1)$$

3. (Amended) An overhead cable as set forth in claim 1, wherein the outer circumferential surface formed by the outermost members being formed so that

the radius R of each arc-shaped groove and the depth H satisfy a condition defined by the following formula 3-1a:

$$5.834H \leq R \leq 7.082H \quad (3-1a)$$

4. (Amended) An overhead cable as set forth in claim 2, wherein the outer circumferential surface formed by the outermost members being formed so that

the radius R of each arc-shaped groove and the depth H satisfy a condition defined by the following formula 3-1b:

$$5.834H \leq R \leq 7.082H \quad (3-1b)$$

5. (Amended) An overhead cable as set forth in claim 1, wherein the outer circumferential surface formed by the outermost members being formed so that

the depth H of each arc-shaped groove of the polygon and the diameter d satisfy a condition defined by the following formula 2-2a:

$$H=0.00721d \quad (2-2a)$$

6. (Amended) An overhead cable as set forth in claim 3, wherein the outer circumferential surface formed by the outermost members being formed so that

the depth H of each arc-shaped groove of the polygon and the diameter d satisfy a condition defined by the following formula 2-2b:

$$H=0.00721d \quad (2-2b)$$

7. (Amended) An overhead cable as set forth in claim 4, wherein the outer circumferential surface formed by the outermost members being formed so that

the depth H of each arc-shaped groove of the polygon and the diameter d satisfy a condition defined by the following formula 2-2c:

$$H=0.00721d \quad (2-2c)$$

8. (Amended) An overhead cable as set forth in claim 1, wherein the outer circumferential surface formed by the outermost members being formed so that

the radius R of each arc-shaped groove and the depth H satisfy a condition defined by the following formula 3-2a:

$$R=6.71H \quad (3-2a)$$

9. (Amended) An overhead cable as set forth in claim 2, wherein the outer circumferential surface formed by the outermost members being formed so that

the radius R of each arc-shaped groove and the depth H satisfy a condition defined by the following formula 3-2b:

$$R=6.71H \quad (3-2b)$$

10. (Amended) An overhead cable as set forth in claim 3, wherein the outer circumferential surface formed by the outermost members being formed so that

the radius R of each arc-shaped groove and the depth H satisfy a condition defined by the following formula 3-2c:

$$R=6.71H \quad (3-2c)$$

11. (Amended) An overhead cable as set forth in claim 5, wherein the outer circumferential surface formed by the outermost members being formed so that the radius R of each arc-shaped groove and the depth H satisfy a condition defined by the following formula 3-2d:

$$R=6.71H \quad (3-2d)$$

12. (Amended) An overhead cable as set forth in claim 6, wherein the outer circumferential surface formed by the outermost members being formed so that the radius R of each arc-shaped groove and the depth H satisfy a condition defined by the following formula 3-2e:

$$R=6.71H \quad (3-2e)$$

13. (Amended) An overhead cable as set forth in claim 7, wherein the outer circumferential surface formed by the outermost members being formed so that the radius R of each arc-shaped groove and the depth H satisfy a condition defined by the following formula 3-2f:

$$R=6.71H \quad (3-2f)$$

14. (Amended) An overhead cable as set forth in claim 1, wherein the outermost members are comprised of a plurality of segments, wherein each segment is obtained by dividing the polygon at the vertexes, wherein each segment has an inner surface having a partially arc-shaped sectional shape configured to substantially follow the outer contour of a set of inner cable strands, and wherein each segment has an outer surface having a flat sectional shape connecting the adjoining vertexes, and wherein each segment has two corners of the flat outer surface formed to define said arc-shaped groove of a radius R and depth H together with the corners of the adjoining segments, and

wherein the plurality of segments are arranged so that they adjoin each other so the corners of the adjoining segments form said arc-shaped grooves and cover the outer circumference of the members positioned inside them and so that the plurality of arc-shaped grooves circle the overhead cable in spirals in the longitudinal direction at a predetermined pitch.